



Luchtvaartautoriteit
Inspectie Leefomgeving en Transport

SAR OPS Oversight CASI Training

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Disclaimer

- > All opinions and experiences expressed are based on my personal training/journey but may not fully represent the official Dutch CAA / Government PoV.
- > Experiences are based on Dutch legislative landscape and may not apply to other countries.
- > As part of EU, NL regs are strongly influenced by this.



SAR OPS oversight – CASI training

- > Background information
- > Standards / requirements / guidance
- > My training
- > Challenges for training
- > Challenges from experience
- > Considerations



Abbreviations / Terminology

- > SAR OPS Search & Rescue Air Operations
- > CASI Civil Aviation Safety Inspector
- > MS Management System as required under (EU) 965/2012
- > AOC Air Operator Certificate
- > CAT Commercial Air Transport
- > SPA SPecific Approval (ex. LVO, RVSM, ETOPS (EDTO), HEMS, HHO)
- > SPO SPecialized Operations (EASA equivalent of Aerial Work)
 - Minus SAR and Firefighting – excluded from Basic Regulation.



Aviation Background

- > Integrated ATP(A)-training
late 2011 – mid 2013
 - San Diego, USA
 - Västerås, SE
 - Utrecht, NL
- > FI(A)-training: 2017
 - Esztergom, HU
- > TKI: 2016-2021
- > FI: 2017-2021
- > CTKI 2019-2021
 - Design and Implementation of new ATPL-TKI syllabus.
- > CASI 2021 - ...
 - Initially ATO focused
 - Since 2023: Coast Guard Aeronautical Operations & other Specialty Operations



Overview civil SAR-OPS regulations NL

- > EASA opt-in from 2021 through early 2025
 - Prior no clear legislation in place (civil SAR since 2015)
 - Shift from SAR under CAT to SAR under SPO
 - SAR falls 'aerial work' ICAO definition (Annex 6)

- > National regulations in effect from early 2025.
 - EASA opt-in withdrawn
 - Nat. Regs based on EASA SPO + SPA's and AOC MS.
 - Medio 2025 also effective in

- > Involved since late 2022/early 2023
 - First CASI to be specifically assigned oversight on Coast Guard Air Operations.



Overview of SAR OPS in NL

- > 2 Operators
 - Commercial Operators
 - Fixed-wing (2 Dash-8)
 - Helicopter (3 AW189)

- > Also in Caribbean part of Kingdom of NL.
 - Additional FW and Rotor assets



Standards / Requirements / Guidance

- > ICAO
 - Several Docs related to CASI-qualifications (e.g. 8335, 9734-A, 10070)

- > No EASA-requirements (SAR and CG excluded from BR)
 - NL SAR-OPS regs based on EASA regs
 - ARO.GEN.200(a)(2)

- > EUR Doc 043 (“Annex 12 inspector”, not SAR OPS inspector)



EUR DOC 043 – Induction training

| Induction Training | | | | |
|--------------------|--|---|---|--|
| Modes | Subject | Topic | Description | Substantiation |
| I/S | General structure of Government/National organisations and Role of public Services | <ul style="list-style-type: none"> Government structure; Ministries; Functions of Ministries; Interaction with CA. | As some rules concerning SAR requirement is approved by the government and not only by director of CA, it's important to know about the Interaction between Government and CA | <ul style="list-style-type: none"> Self-study Dutch regulations Meet with DGLM |
| I/S | CAs' General structure and Functions | <ul style="list-style-type: none"> CAs' role; CAs' structure; Function of Departments; Administrative procedures (Lines of interaction); Action Plan; Technical Facilities. | General understanding of role and function of CA within the state | <ul style="list-style-type: none"> Refresher self-study |
| I/S | Relevant Department's roles and functions within the CA | <ul style="list-style-type: none"> Roles and responsibilities; Stakeholders under each department; Detailed functions of staff; Internal procedures. | Includes detailed understanding of roles, functions and processes of department, where trainee will continue his/her work after training. | <ul style="list-style-type: none"> Refresher self-study |
| I | Ethics, discipline and security policy of CA | <ul style="list-style-type: none"> Internal policy; Correspondence; Working hours; | Includes internal policy of CA, correspondence and working schedule | <ul style="list-style-type: none"> Self-Study OJT as inspector |
| I | National law and Regulations | <ul style="list-style-type: none"> Hierarchy of rules; Aviation law; Government decrees; Ministerial orders; Director CAs' order; International agreements; SSP. | Topic of this subject is general understanding of existing national aviation regulation within the state. This subject includes also State Safety Program (SSP). | <ul style="list-style-type: none"> Self-study Dutch regulations Regeling organisatie Kustwacht Nederland Regeling inzake de SAR-dienst 1994 Regelingsregeling Besluit luchtverkeer 201 Self-study SSP |
| I/E/S | Roles, rules and Regulations of International Organisations | <ul style="list-style-type: none"> General functions of International organisations; Cooperation with International Organisations. | Includes applicable international rules and regulations. | <ul style="list-style-type: none"> ATPL(A) – Air law - completed ATPL(A) – Air law - TKI Self-Study relevant EU/ICAO documents |

State Specificities

Self Study



EUR DOC 043 – Basic training

| Basic Training | | | | |
|----------------|------------------------------------|--|---|---|
| Modes | Subject | Topic | Description | Substantiation |
| I/E | Rulemaking <i>If applicable</i> | <ul style="list-style-type: none"> Applicable rules; Process and procedures | Detailed knowledge of rulemaking policy and procedure. | N/A OJT |
| I/E | Oversight | <ul style="list-style-type: none"> Applicable rules and standards; Audit technique procedures. AUDIT technique; external training | Detailed knowledge of state oversight policy and procedure. | <ul style="list-style-type: none"> Aviation Auditor Recurrent training [AQS] Aviation Lead Auditor Training [AQS] Effective SAR System Oversight [JAA-TO] Self-Study Dutch legislation |
| I/E | Safety Management System | <ul style="list-style-type: none"> Applicable rules. | Safety Management - ICAO Annex 19; ICAO Safety Management Manual – Doc 9859 concepts. | <ul style="list-style-type: none"> SAR AOC Management [JAA-TO] |
| I/E | Quality Management System | <ul style="list-style-type: none"> Basic principles of QMS. | QUALITY MANAGEMENT- ISO 9001 | <ul style="list-style-type: none"> SAR AOC Management [JAA-TO] |
| I/E | Human factors | <ul style="list-style-type: none"> Human factor in Aviation. | The training should cover ICAO Doc 9806 - Human Factors Guidelines for Safety Audits Manual | <ul style="list-style-type: none"> ATPL(A) – Human Performance & Limitations – completed ATPL(A) – Human Performance & Limitations – TKI Self-Study Doc 9806 |
| I/E | Basic Principles of SAR | <ul style="list-style-type: none"> Applicable rules and procedures | The training should cover ICAO Annex 12, IAMSAR Manual, SOLAS, Cospas-Sarsat Programme. | <ul style="list-style-type: none"> SAR AOC Management [JAA-TO] Self-Study <ul style="list-style-type: none"> ICAO ANNEX 12 IAMSAR VOL I IAMSAR VOL II IAMSAR VOL III SOLAS COSPAS SARSAT Programma Part-SPO |



EUR DOC 043 – Specialized training

| Specialized Training | | | | |
|----------------------|-------------------------------|---|---|---|
| Modes | Subject | Topic | Description | Substantiation |
| I | Oversight of State SAR System | <ul style="list-style-type: none">• Applicable rules and procedures;• National SAR Plan;• National SAR Agreements and cross border coordination;• RCC Plans of Operation and SOPs• SAREX. | Trainee tasks will include several type of SAR oversights in order to cover various procedures and requirements | <ul style="list-style-type: none">✓ Effective SAR System Oversight [JAA-TO]✓ Self-Study relevant Dutch documents✓ OJT |

SAR System Oversight

What about SAR-OPS specialized training?



EUR DOC 043 – OJT

| OJT | | | | |
|-------|------------------------------------|--|--|--|
| Modes | Subject | Topic | Description | Substantiation |
| I | Rulemaking <i>If applicable</i> | <ul style="list-style-type: none"> Analysing the need of amendment and/or development of new rules Initiation Drafting Communication with stakeholders Implementation Analysing need for amendment and/or development of internal procedure Analysing requirement of the rule | Applicable only if trainee's tasks will include rulemaking tasks. | N/A OJT |
| I | Oversight | Audit <ol style="list-style-type: none"> Preparation Audit Plan Checklist Audit Report CAP approval Follow up | Practical assignments on the topic carried out under supervision of the mentor. State shall decide number of inspections to be conducted under supervision and independently, before obtaining inspector's credential | <input checked="" type="checkbox"/> OJT Generic OJT |
| I | Administrative functions | Communication formats | Practical assignments on the topic carried out under supervision of the mentor. | <input checked="" type="checkbox"/> OJT |



Continuation Training

- > SAR Operation Oversight
 - Learning by doing
- > SAR TF membership
 - Learning from others
- > Oversight of other operators
 - HEMS-operations share some challenges

Recurrent attendance of SAR OPS oversight course.



Challenges - Training

- > Niche – who teaches/mentors the pioneer?
 - No off-the-shelf TP available*
 - State specific

- > Training by whom?
 - General SAR information
 - Few trainers available – limited points of view



Challenges – from Experience

- > Complex constructs
 - Dutch CG
 - SAR vs non-SAR
- > Shaping/shifting regulations
- > Limited resources
- > Moral dilemmas
 - Conflicting State Responsibilities
 - Saving lives vs protecting lives
- > Political pressures
 - Optics vs reason/regs
 - “No” isn’t always an option
- > Office politics
- > Resistance to change / Inertia
- > Credibility
- > Expect the unexpected



Overcoming Challenges

- > Do I now feel comfortable overseeing SAR-operations?

- > What would help going forward?
 - Updating EUR DOC 043 with a SAR-OPS oversight inspector training program
 - Alternatively, add CASI TP to EUR DOC 049

 - Continuing work on EUR DOC 049 to give States guidance on certain dilemmas
 - Airworthiness (limitations / safety equipment) vs operational conditions
 - Mission creep vs multi-role operations



Topics to consider in SAR OPS CASI training

- > OPS CASI training, supplemented with:
 - Specific regulation training for SAR
 - SAR concepts & SAR planning
 - In-depth Risk Management training, including dynamic risk assessment
 - Environment specific (crew) training (e.g. sea, mountain, cold, heat)
 - nonFC-crew training (Technical crew/Task Specialist/SAR Crew)
 - In-depth HF training, including emphasis on Mission Creep and Go-mindedness
 - Fatigue Risk Management with emphasis on extended duty rostering

NON-EXHAUSTIVE LIST



Importance of SAR TF for SAR OPS oversight

- > Guidance material
 - Standardization
 - Acknowledgement of challenges

- > Sideline/dinner talks & discussions
 - Finding out you're not alone

- > Networking
 - Let's stay in touch & let's brainstorm on issues (actual & hypothetical)



Thank you for your attention

> Questions?

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